the existing content.

## Listing of Claims:

1. (Currently Amended) A method comprising:

merging at least two sections from an object file into one section of a firmware module, wherein the firmware module follows a portable executable (PE) format having subdivisions that include an MS-DOS header:

storing [[a]] the firmware module in memory, wherein the firmware module follows a portable executable (PE) format having subdivisions that include an MS-DOS header; and flattening the firmware module by replacing existing content within at least one field within the MS-DOS header of the firmware module with fill data that is more compressible than

 (Original) A method according to claim 1, wherein the operation of flattening the firmware module comprises loading fill data into at least fifty bytes of the MS-DOS header.

- (Original) A method according to claim 1, wherein the operation of flattening the firmware module comprises loading fill data into an MS-DOS stub field within the MS-DOS header.
- (Original) A method according to claim 1, wherein the operation of flattening the firmware module comprises ensuring that fill data occupies all fields within the MS-DOS header except for an Ifanew field and an e-magic field.
- 5. (Original) A method according to claim 1, wherein the PE format also includes an optional file header, the method further comprising:

loading fill data into at least one field within the optional file header.

6. (Original) A method according to claim 5, wherein the operation of loading fill data into at least one field within the optional file header comprises:

loading fill data into at least one of a SizeOfStackReserve field, a SizeOfStackCommit field, a SizeOfHeapReserve field, a SizeOfHeapCommit field, and a LoaderFlags field.

## (Canceled)

(Currently Amended) A method according to claim [[7]] 1, wherein the operation of
merging at least two sections from an object file into one section in the firmware module
comprises

instructing a linker to merge the at least two sections when generating the firmware module from the object file.

- 9. (Original) A method according to claim 8, further comprising:
- causing the linker to change a name of a section specified in the object file to a more compressible name.
- 10. (Original) A method according to claim 1, wherein the PE format also includes an image page, the method further comprising:

storing, in the image page, an alternate file path for a debug file associated with the firmware module, wherein the alternate file path is more compressible than an original file path for the debug file.

11. (Original) A method according to claim 1, wherein the PE format also includes an image page, the method further comprising:

instructing a linker to store, in the image page of the firmware module, an alternate file path for a debug file associated with the firmware module, wherein the alternate file path is more compressible than an original file path for the debug file.

- 12. (Currently Amended) A program product comprising:
  - a machine accessible storage medium; and

instructions encoded in the machine accessible medium, wherein the instructions, when executed by a processing system, cause the processing system to perform operations comprising: merging at least two sections from an object file into one section of a firmware module, wherein the firmware module follows a portable executable (PE) format having subdivisions that include an MS-DOS header:

accessing [[a]] the firmware module within the processing system, wherein the firmware module follows a portable executable (PE) format having subdivisions that include an MS-DOS header: and

flattening the firmware module by replacing existing content within at least one field within the MS-DOS header of the firmware module with fill data that is more compressible than the existing content.

- (Original) A program product according to claim 12, wherein the operation of flattening the firmware module comprises loading fill data into at least fifty bytes of the MS-DOS header.
- 14. (Original) A program product according to claim 12, wherein the operation of flattening the firmware module comprises loading fill data into an MS-DOS stub field within the MS-DOS header.
- 15. (Original) A program product according to claim 12, wherein the operation of flattening the firmware module comprises ensuring that fill data occupies all fields within the MS-DOS header except for an Ifanew field and an e-magic field.
- 16. (Original) A program product according to claim 12, wherein the PE format also includes an optional file header, the program product further comprising:

instructions which, when executed by the processing system, cause the processing system to load fill data into at least one field within the optional file header.

17. (Original) A program product according to claim 16, wherein the operation of loading fill data into at least one field within the optional file header comprises:

loading fill data into at least one of a SizeOfStackReserve field, a SizeOfStackCommit field, a SizeOfHeapReserve field, a SizeOfHeapCommit field, and a LoaderFlags field.

18. (Currently Amended) A processing system with resources for flattening a firmware module, the processing system comprising:

## a processor;

memory communicatively coupled to the processor; and

instructions stored in the memory, wherein the instructions, when executed by the processor, cause the processing system to perform operations comprising:

merging at least two sections from an object file into one section of a firmware module, wherein the firmware module follows a portable executable (PE) format having subdivisions that include an MS-DOS header:

accessing [[a]] the firmware module within the processing system, wherein the firmware module follows a portable executable (PE) format having subdivisions that include an MS-DOS header; and

flattening the firmware module by replacing existing content within at least one field within the MS-DOS header of the firmware module with fill data that is more compressible than the existing content.

- (Original) A processing system according to claim 18, wherein the operation of flattening the firmware module comprises loading fill data into at least fifty bytes of the MS-DOS header.
- (Original) A processing system according to claim 18, wherein the operation of flattening
  the firmware module comprises loading fill data into an MS-DOS stub field within the MS-DOS
  header.

- 21. (Original) A processing system according to claim 18, wherein the operation of flattening the firmware module comprises ensuring that fill data occupies all fields within the MS-DOS header except for an Ifanew field and an e-magic field.
- 22. (Original) A processing system according to claim 18, wherein the PE format also includes an optional file header, the processing system further comprising:

instructions which, when executed by the processor, cause the processing system to load fill data into at least one field within the optional file header.

23. (Original) A processing system according to claim 22, wherein the operation of loading fill data into at least one field within the optional file header comprises:

loading fill data into at least one of a SizeOfStackReserve field, a SizeOfStackCommit field, a SizeOfHeapReserve field, a SizeOfHeapCommit field, and a LoaderFlags field.

- 24. (Currently Amended) An apparatus comprising:
  - a machine accessible storage medium; and
- a firmware module encoded in the machine accessible medium, the firmware module having a portable executable (PE) format with subdivisions that include an MS-DOS header, wherein the firmware module was produced by operations comprising:

merging at least two sections from an object file into one section of the firmware module; and

flattening the firmware module by replacing existing content within at least one field within the MS-DOS header of the firmware module with fill data that is more compressible than the existing content.

- 25. (Original) An apparatus according to claim 24, further comprising:
  - a processor communicatively coupled to the machine accessible medium;

memory communicatively coupled to the processor; and

instructions stored in the memory, wherein the instructions, when executed by the processor, cause the processing system to perform operations comprising:

retrieving the firmware module from the machine accessible medium; and executing the firmware module within a boot environment.

- 26. (Original) An apparatus according to claim 24, wherein: the machine accessible medium comprises a non-volatile storage device; and the apparatus further comprises an interface in communication with the non-volatile storage device, the interface operable to provide communication between the non-volatile storage device and a processor of a data processing system.
- 27. (Original) An apparatus according to claim 26, wherein the apparatus comprises an adapter card for a processing system.